

ABSTRACT

Provided are a heat-resistant glass fiber which has excellent heat resistance, which is also easy to spin and less expensive and which is suitable as an acoustic material for use in an automobile muffler, and a process for the production thereof. The heat-resistant glass fiber has a composition comprising, substantially by weight %, 5  
5 56 to 58.5 % of SiO<sub>2</sub>, 12 to 17 % of Al<sub>2</sub>O<sub>3</sub>, 16 to 27 % of CaO, 1 to 9 % of MgO, 0 to 1 % of Na<sub>2</sub>O and 0 to 1 % of K<sub>2</sub>O as the 10 entirety of the fiber and containing neither B<sub>2</sub>O<sub>3</sub> nor F<sub>2</sub>, and has a surface layer portion made of a silicic glass having an SiO<sub>2</sub> content of at least 90 % by weight. The 15 process comprises treating the surface of the above fiber having the above composition with a mineral acid, to produce the heat-resistant glass fiber.

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